

SCHEMATIC
DIAGRAM
AND
PARTS LIST

BK PRECISION 1652

POWER SUPPLY

PARTS ORDERING INFORMATION

There is a minimum charge for each invoice. Orders will be shipped C.O.D., unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover handling, postage, or express charges. Specify model and serial number when ordering replacement parts.

ORDER REPLACEMENT PARTS FROM:

B & K-Precision, Dynascan Corporation
Factory Service Operations
2815 West Irving Park Road
Chicago, Illinois 60618



6460 West Cortland Street, Chicago, Illinois 60635

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SCHEMATIC SYMBOL	DESCRIPTION	DYNASCAN PART NUMBER
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RESISTORS

Standard value resistors are not listed. These are readily available from your local parts distributor. See schematic diagram for value. Unless specified otherwise on schematic, resistors are $\pm 5\%$, $1/4$ W.

R4, 45	.098 $\Omega \pm 1\%$, $1/2$ W, Wire Wound.....	004-125-9-001
R9, 50	0.5 $\Omega \pm 1\%$, 3 W, Wire Wound.....	004-129-9-001
R11, 75	249 $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-2-490
R12, 15, 74, 78	100 Ω Trimmer Pot.....	008-275-9-001
R13, 76	12.1 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-1-212
R14, 77	49.9 $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-4-998
R17, 53	220 $\Omega \pm 10\%$, 5 W, Wire Wound.....	006-005-9-221
R30, 66	6.04 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-6-041
R31, 32, 41, 68	3.01 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-3-011
R34	1.82 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-1-821
R35, 70	2.5 k $\Omega \pm 20\%$, 1 W, Dual Shaft Multi-turn Pot....	008-413-9-001
R36	787 $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-7-870
R39	2.00 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-2-001
R40	6.81 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-6-811
R71	10 k Ω Trimmer Pot.....	008-274-9-001
R79	2.5 k Ω Trimmer Pot.....	008-236-9-001
R84, 91	2.15 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-2-151
R85, 92	1.62 k $\Omega \pm 1\%$, $1/4$ W, Metal Film.....	015-141-1-621

COMPOSITE
499-224-9-001

SCHEMATIC SYMBOL	DESCRIPTION	DYNASCAN PART NUMBER
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CAPACITORS

Capacitors for which part numbers are not listed are standard capacitors that are readily available from your local parts distributor. Description is given for reference.

C1, 14	1500 μ F, 50 V, Electrolytic.....	022-169-9-001
C2, 7, 15, 20	0.047 μ F $\pm$ 20%, 100 V Polyester.....	025-094-9-001
C3, 16	11,000 μ F $\pm$ 20%, 28 V, Low ESR Electrolytic....	022-234-9-001
C4, 17	220 μ F, 25 V, Electrolytic.....	022-083-9-001
C5, 11, 13, 18, 24, 26	0.05 μ F $\pm$ 80/-20%, 100 V, Ceramic Disc	
C6, 19	10 μ F, 25 V, Electrolytic.....	022-121-9-001
C8, 9, 21, 22	0.1 μ F $\pm$ 20%, 100 V, Polyester.....	025-109-9-001
C10	330 pF $\pm$ 10%, 500 V, Ceramic Disc	
C12, 25	0.0033 μ F $\pm$ 10%, 500 V, Ceramic Disc	
C23	470 pF $\pm$ 10%, 500 V, Ceramic Disc	
C27, 29	0.01 μ F $\pm$ 20%, 500 V, Ceramic Disc	
C28	0.01 μ F $\pm$ 80/-20%, 100 V, Ceramic Disc	
C30	0.1 μ F $\pm$ 20%, 16 V, Ceramic Disc	

DIODES AND TRANSISTORS

D1, 2, 9, 10	3 A, 100 V Silicon Diode	151-102-9-001
D3, 11	3 A, 50 V Fast Recovery Silicon Diode	151-103-9-001
D4, 5, 6, 12, 13, 14,	1 A, 600 V Silicon Diode	151-050-9-001
D7, 8, 15, 16	1N4148 Silicon Diode.....	151-038-9-001
D17	1N749A (4.3 V $\pm$ 5%, 400 mW) Zener Diode	152-062-9-001
Q1, 6	D44H7 NPN Silicon Transistor.....	172-060-9-001
Q2, 7	D41D7 PNP Silicon Transistor.....	173-012-9-001
Q3, 8	2N3055 NPN Silicon Transistor	172-033-9-001
Q4, 9	TTP30A PNP Silicon Transistor	173-013-9-001
Q5, 10	2N2905 PNP Silicon Transistor	173-005-9-001
Q11, 12, 14, 16	2N3904 NPN Silicon Transistor	176-084-9-001
Q13, 15	2N5550 NPN Silicon Transistor	176-033-9-001

INTEGRATED CIRCUITS

IC1, 2, 4	723 Voltage Regulator	307-009-9-001
IC3, 5	358 Dual Op-Amp	307-134-9-001
IC6	Dual Opto-Isolator	307-291-9-001
IC7, 8, 9	78L15A $\pm$ 15 V Voltage Regulator	307-130-9-001

SCHEMATIC SYMBOL	DESCRIPTION	DYNASCAN PART NUMBER
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INDUCTORS AND TRANSFORMERS

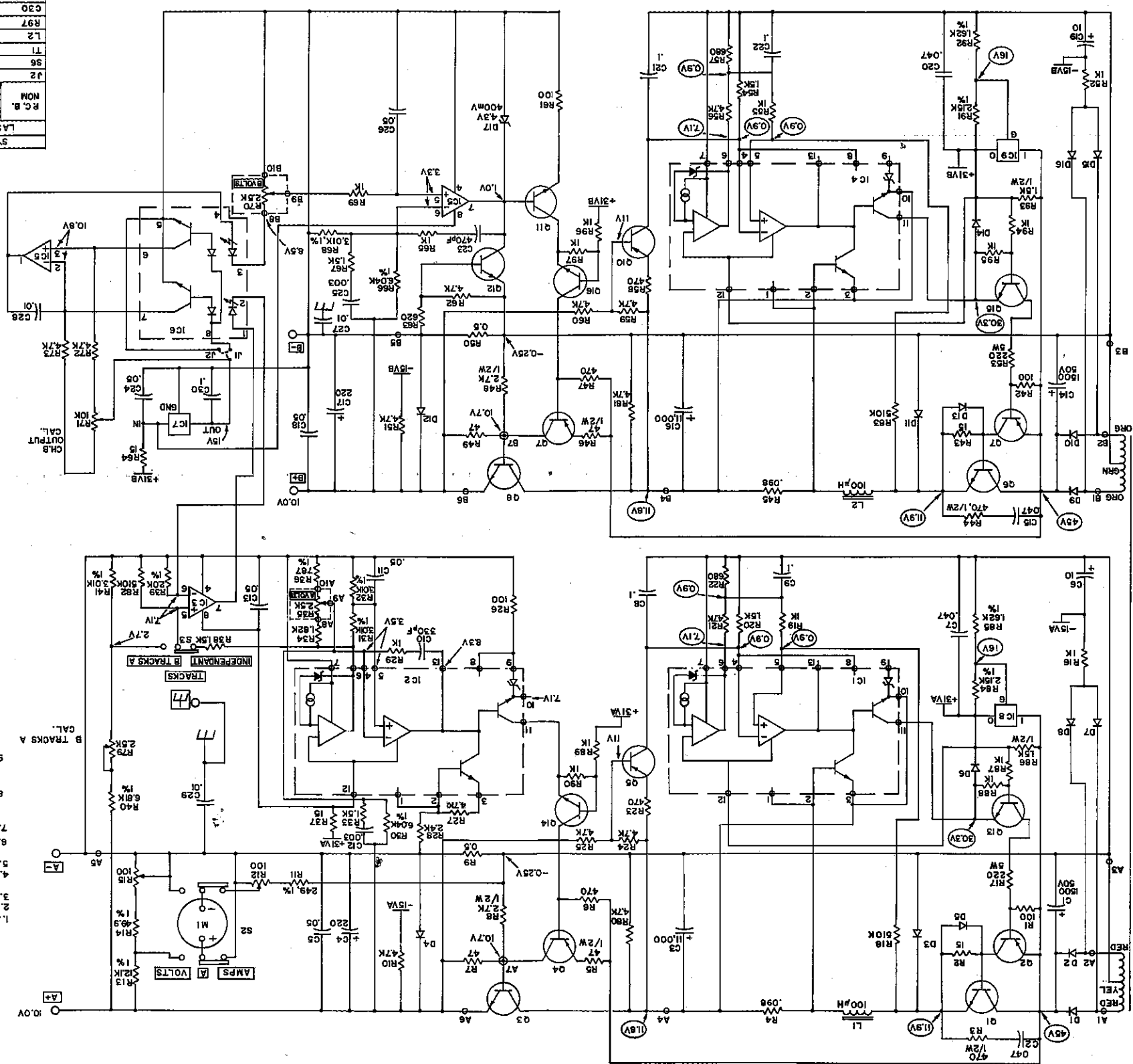
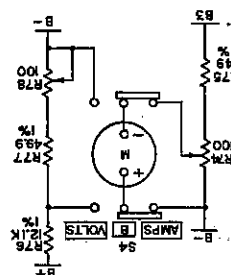
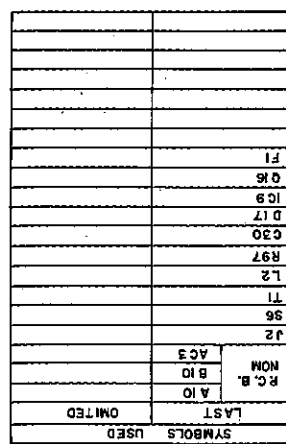
L1, 2	100 μ H Inductor	042-047-9-001
T1	Power Transformer.....	065-162-9-001

SWITCHES

DPDT Slide Switch (PC Mounted)	084-043-9-001
DPDT Line Voltage Switch.....	084-088-9-001

MISCELLANEOUS

Fuse, 1.5 A, 250 V, 3AG Slow Blow (for 100 V or 120 V operation)	190-010-9-001
Fuse, 0.75 A, 250 V, 3AG Slow Blow (for 220 V or 240 V operation)	190-009-9-001
Fuseholder Body with Nut.....	742-038-9-001
Fuseholder, 3AG Insert (Gray)	742-038-9-002
Cover, Top.....	253-098-9-001
Chassis (Bottom)	523-422-9-001
Inlay, Front Panel	260-309-9-001
Handle	746-030-9-001
Bracket, Handle Mount (2 Required).....	261-068-9-001
Meter, 1 mA Full Scale, 100 Ω	320-110-9-001
Insulator, Plastic (TO-3), for Q3, 8	342-048-9-001
Insulator, Mica (TO-3), for Q3, 8	347-002-9-001
Insulator, Electrolytic Capacitor, for C1, 14.....	342-059-9-001
Insulator, Plastic (TO-5), for Q5, 10	347-070-9-001
Foot, Rubber	381-002-9-001
Glamour Cap for Front Panel Slide Switches.....	384-008-9-001
Instruction Manual	480-333-9-001
Clamp (for C3, 16)	741-149-9-001
Heat Sink (Q3, 8)	747-043-9-001
Heat Sink (Q1, 4, 6, 9).....	747-083-9-001
Neon Lamp with 100 k Ω Resistor	401-001-9-002
Jewel, Pilot Lamp.....	750-003-9-001
Starwasher (for Pilot Lamp Jewel)	731-008-9-001
Knob, Concentric (Inner).....	751-181-9-001
Knob, Concentric (Outer)	751-217-9-001
Stand Off, Plastic (PC Board Mounting).....	759-127-9-001
Binding Post, Red	773-093-9-001
Binding Post, Green	773-093-9-002
Binding Post, Black.....	773-093-9-003
Shorting Link (for Binding Posts)	769-121-9-001
AC Receptacle, Chassis Mount	770-022-9-001
PC-1 Line Cord (USA & Canada)	539-201-0-000
PC-2 Line Cord (International)	539-202-0-000



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL RESISTORS IN OHMS, 1/4W, 5%.
2. ALL CAPACITORS IN MICROFARADS.
3. 50 & 60 HZ LINE VOLTAGE SELECT SW SHOWN IN [20V]
4. TITLES IN RECTANGLES INDICATE PANEL NOMENCLATURE.
5. FOR F1 VALUE SEE PARTS LIST OR PLATE ON REAR OF UNIT.
6. EITHER 1 OR 42 ONLY USED PER UNIT, NOT BOTH.
7. ALL VOLTAGES ARE TYPICAL READINGS AT 10V OUTPUT INTO 20% LOAD. (5A) TRACKING SWITCH SET TO "INDEPENDENT"
8. VOLTAGES IN OVALS ARE REFERENCED TO A5 (B3 IN B SUPPLY), ALL OTHERS REFERENCED TO A5 (B3 IN B SUPPLY).
9. THIS SCHEMATIC SUBJECT TO CHANGE WITHOUT NOTICE.

* SEE UNIT LABEL OR PART LIST FOR CORRECT VALUE.